

# POTENTIAL AND KINETIC ENERGY

Name \_\_\_\_\_

Potential energy is stored energy due to position. Kinetic energy is energy that depends on mass and velocity (movement).

Potential Energy = Weight x Height (P.E. =  $w \times h$ )

Kinetic Energy =  $\frac{1}{2}$  Mass x Velocity<sup>2</sup> (K.E. =  $\frac{1}{2}mv^2$ )

The units used are:

Energy = joules

Weight = newtons

Height = meters

Mass = kilograms

Velocity = m/s

For a closed system, the sum of the potential energy and the kinetic energy is a constant. As the potential energy decreases, the kinetic energy increases.

Solve the following problems.

1. What is the potential energy of a rock that weighs 100 newtons that is sitting on top of a hill 300 meters high?

Answer: \_\_\_\_\_

2. What is the kinetic energy of a bicycle with a mass of 14 kg traveling at a velocity of 3 m/s?

Answer: \_\_\_\_\_

3. A flower pot weighing 3 newtons is sitting on a windowsill 30 meters from the ground. Is the energy of the flower pot potential or kinetic? How many joules is this?

Answers: \_\_\_\_\_

4. When the flower pot in Problem 3 is only 10 meters from the ground, what is its potential energy?

Answer: \_\_\_\_\_

5. How much of the total energy in Problems 3 and 4 has been transformed to kinetic energy?

Answer: \_\_\_\_\_

6. A 1200 kg automobile is traveling at a velocity of 100 m/s. Is its energy potential or kinetic? How much energy does it possess?

Answers: \_\_\_\_\_

# Physical Science If8767 Page 61

**CO Houle**



**Physical Science If8767 Page 61:**

**Concepts and Theories in Physical Science, 1960-61** Swarthmore College,

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physical Science If8767 Page 61**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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